

SonixTouch Ultrasound System



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SonixTouch may be pending regulatory approval in your region and
may not be available for sale or shipping prior to such approval.
Check with your sales representative for details.

Table of Contents

General Overview	1
General Specifications	2
Applications	2
Electrical Power	2
Transducer/Gel Holders	2
Transducers	2
Physical Specifications	2
Operating Conditions	2
Shipping/Storage Conditions	3
Connectivity, Media and Peripherals	3
Cine Memory/Image Memory	3
DICOM and EMR Connectivity (optional)	3
Image Storage	4
Technology Support	4
General Performance	4
Pan/Zoom	4
ECG (optional)	4
Hardware Specifications	5
LCD Monitor.....	5
Touch Screen	5
Console	5
Embedded Computer	5
Audio: Speakers	5
UPS ¹ (optional)	6
SonixGPS Arm (optional)	6
Imaging Performance	6
Software Specifications.....	7
System Setup	7
Software Languages	7
User Interface	7
Measurement/Calculations	7
System Safety	7
Measurements and Calculations	8
Abdomen/Biliary.....	8
All Modes	8
Bladder	8
All Modes	8
Breast.....	9
All Modes	9
Cardiac.....	9
B-Mode	9
Dual B/Quad B	9
Compound/Dual Compound (optional)	10
M-Mode	10
Color M	10
Anatomical M	11
Simultaneous 2D/Color	11
Dual Color (optional)	11
Color Doppler	11
Pulsed Wave (PW) Doppler	11
Continuous Wave (CW) Doppler	12
Triplex	12
Miscellaneous	13
Generic	13
Live Trace - B	13
MSK	13

Measure Live.....	13
All Modes	13
OB 1 st Trimester.....	14
B-Mode	14
All Modes	14
OB 2 nd -3 rd Trimesters.....	14
All Modes	14
Pelvic	15
All Modes	15
Renal.....	16
All Modes	16
Small Parts.....	16
All Modes	16
Elastography	16
Urology.....	17
All Modes	17
Vascular	18
B-Mode/Dual B/Quad B/Compound/Dual Compound	18
PW Mode	18
All Modes	18
Measurement Tables	19
OB Fetal Age	19
OB Fetal Growth	19
OB Fetal Growth Ratios	19
OB Estimated Fetal Weight	20
OB Birth Weight	20
Cardiac	20
Measurement Tools.....	20
B-Mode	20
Doppler	20
Imaging Modes and Analysis Packages	21
Imaging Modes	21
Combined Imaging Modes	21
B-Mode	22
M-Mode	22
Color Mode	22
PW Mode	23
CW Mode (optional)	23
Freehand 3D Mode (optional)	24
Standard 3D/4D Mode (optional)	24
Advanced 3D/4D Mode (optional)	25
Compound (optional)	25
Panoramic (optional)	25
Elastography ¹ (optional)	25
Research Modes	26
Analysis Packages	26
Cleaning and Maintenance.....	27
Approved Cleaning Agents/Solutions	27

General Overview

SonixTouch – Opening new frontiers for ultrasound

Ultrasound is being used in more areas of patient care than ever before. So we're on a mission to make our systems more accessible for more users. Whether you're an experienced user with years of ultrasound training or a novice user with basic knowledge, you'll see the results you need using SonixTouch.

Touch screen technology lets you choose

SonixTouch features a large 10.4" color touch screen with a wide viewing angle. Unlike traditional ultrasound systems, the SonixTouch interface only displays the controls relevant to the procedure at hand. Select a factory preset for a particular type of exam or create one of your own. The system's programmable screen makes it easy to further customize what you see on screen based on your preferences.

Stay current and protect your investment

Built on an open software platform, SonixTouch systems are easily updated or upgraded to current with new technology and new features. Unlike traditional systems with fixed functionality, your old system can be new again in a few minutes with help from our remote support team.



Only buy what you need when you need it

SonixTouch begins as a black and white system that can be made to order by adding optional advanced imaging modes and features including: Color and Power Doppler, Pulsed Wave Doppler and 3D. Options may be added remotely through online updates, even after the system has been delivered.

Bar code reader and wireless access

No other ultrasound makes it easier to get patient data into and out of the system. Wireless connectivity means you can move the system from patient to patient and still record data and ultrasound images onto a central server. Using a bar code reader, simply scan a patient's wrist band or chart to accurately input patient information.

Advanced Modes and Features

Thanks to its highly programmable beamformer and software platform, SonixTouch supports advanced imaging modes such as elastography and panoramic imaging. Our SonixGPS option is a revolutionary advancement in needle visualization. It lets you predict the needle's trajectory and access your target from any angle.

Safe Internet connectivity

Since Ultrasonix systems can be connected to the Internet, you'll benefit from easy software upgrades and remote diagnostics and support in case you run into technical issues. You'll also be able to connect to online databases for easy billing management and to share image files with authorized colleagues who are outside your immediate work environment. Files are stored in a secure environment to protect patient confidentiality.

General Specifications

Applications

• Abdomen	• MSK	• Pediatric	• Urology
• Cardiac	• Nerve Block	• Small Parts	• Vascular
• Gynecology	• Obstetrics		

Electrical Power

Input Voltage	100V–120V/200V–240V	Input Frequency	50/60 Hz
Input Current	7.0A/4.0A		

Transducer/Gel Holders

Transducer/Gel Holders	4 (shared)	Transducer Hooks	2
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Transducers

For transducer specifications, please refer to the current *Transducer Specifications* brochure (UXID 00.050.134).

Physical Specifications

Dimensions (H x W X D)	137 cm x 53.5 cm x 71 cm (54" x 21" x 28")	Weight	63.6 kg (140 lbs)
Cart Based	Yes	Lift System	No
Caster Height and Tread Width	Ø12.5 cm x 3.2 cm (Ø4.9" x 1.26")	Caster Type	4 Total locking
Air Filters	Yes	Rear Pull Handles (non-GPS configuration)	Optional

Operating Conditions

Operational Temperature	10° to 40° C (50° to 104° F)	Operational Humidity	30% to 75% (non-condensing)
Safety Class	BF		

Shipping/Storage Conditions

Shipping/Storage Temperature	-15°C to +50°C (+5° to +122° F)	Shipping/Storage Humidity	10% to 90% (non-condensing)
Pressure	50 kPa to 106 kPa		

Connectivity, Media and Peripherals

Active Transducer Ports	3	Peripherals/Storage Tray	Optional
Digital B/W Thermal Printer	Optional	Digital Video Monitor (aux)	DVI and analog BNC compatible device
Barcode Reader	Optional	Remote Support (Service Diagnostics)	Yes
SonixLive™ Streaming	Yes	Wireless (802.11a/b/g/n)	Optional
Footswitch: BNC (One Pedal)	Optional	Footswitch: USB (Two/Three Pedals)	Optional
USB Ports	4	Ethernet Port	1 (10Mb/1000Mb)
USB Modem (Third Party)	Yes	External Display	DVI out to DVI or HMDI with signal support for XGA at a resolution of 1024 x 768 and a video frequency of 60Hz

Cine Memory/Image Memory

Cine Memory	128 Mb	Cine Capture Function	Yes
Quad Image Cine Display	Yes	Dual Image Cine Display	Yes
Cine Review Loop	Yes	Cine Review Speed	1/8, 1/4, 1/2, 1, 2
Measurements, Calculations, Annotations on Cine Playback	Yes (on still image)	Cine Gauge and Cine Image Number Display	Yes
Post-Acquisition Manipulation of Raw Cine Data	Yes (frozen image options only)		

DICOM and EMR Connectivity (optional)

DICOM 3.0 Compliant	Yes	DICOM Worklist	Yes
DICOM Commit	Yes	DICOM Print	Yes
DICOM Perform Proc Step	No	DICOM Structured Reporting	Yes
DICOMDIR	Yes	eIVF EMR Interface	Yes
Export images in DICOM format after acquisition	Yes		

Image Storage

Storage Format	PNG, AVI, MPEG, RAW (Cine)	Export Video Format	AVI (Xvid), MPEG, DICOM
Export Image Format	PNG, JPEG, BMP, GIF, DICOM, DICOMDIR	Cine Frame Capacity	> 8,000 frames
SonixDVR™	1 hr or 120,000 frames	Stored Image Capacity	> 50,000 images
Stored Image Clip Capacity	> 1,000, 3 second image clips	DICOM Still Image (Gray and Color)	Yes
CD-R Storage	Supports Ultrasonix-approved recorder(s)	DVD Storage	Supports Ultrasonix-approved recorder(s)

Technology Support

ECG Support	Optional	SonixHub™	Optional
SonixGPS™	Optional ¹	SonixDAQ™ (RP Research)	Optional
SonixCam™	Optional	SonixDVR™	Optional
SonixShine™	Optional ²	SonixRemote™	N/A

¹ For details, refer to the most recent SonixGPS Accessories Catalogue (document number 00.050.147).

² Supported transducers: L9-4/38, L14-5/38, L14-5/38 GPS.

General Performance

Digital Broadband	8192 channels	Beamformer	Re-programmable
Adjustable Transmit Voltage	Yes (16 steps)	Beamformer Frequency Range	1 – 40 MHz

Pan/Zoom

Real-Time Image	Yes	Frozen Image	Yes
HD Zoom: Read Zoom Range	100% – 500%	HD Zoom: Write Zoom Range	100% – >300%

ECG (optional)

ECG Module	Yes	ECG Lead	Yes
ECG Invert	Yes	ECG Baseline	Yes
ECG Gain	Yes		

Hardware Specifications

LCD Monitor

Size (Diagonal)	43.18 cm (17")	Contrast Ratio	1500:1
Software Display Resolution	1024 x 768 pixels	Horizontal/Vertical Plane Viewing Angle	89°/89°
Brightness	250 cd/m ²	Color Depth	24 bit
Grey Levels	256	Response Time	20 ms
Surface Hardness Rating	7 Mohs	Rotate Angle	±90°
Tilt Angle	0°–115°		

Touch Screen

Size (Diagonal)	26.4 cm (10.4")	Weight	475 g (16.75 oz)
Contrast Ratio	1000:1	Software Display Resolution	800 x 600 pixels
Horizontal/Vertical Plane Viewing Angle	160°/160°	Compatible with bare hands/thin medical gloves (e.g., latex, vinyl, nitrile)	Yes
Type/Technology	Resistive	Brightness	400 cd/m ²
Color Depth (True Color [Million])	16.78	Grey Levels	256
Input Signal	LVDS		

Console

Console Adjustment	Tilt
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Embedded Computer

CPU Specification (min)	Intel Core i5 2400, Quad Core, 3.1 GHz, 6M L3 Cache, 95W	Hard Drive (Patient) Data	500 Gb or larger
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Audio: Speakers

Internal/External	Internal (stereo)	Frequency Range	200 Hz – 17 kHz
Impedance	4 Ω	Power	5 W
Sound Pressure	80 dB/W	Size (L x W x H)	105 mm x 35 mm x 20.3 mm (41.4" x 13.75" x 8")

UPS¹ (optional)

Voltage	100V–120V/200V–240V	Frequency	50/60 Hz
Current	7.0A/4.0A	Runtime	> 90 minutes
Weight	11 kg (24.2 lbs)	Dimensions	29.5 cm x 26.5 cm x 9 cm (11.6" x 10.4" x 3.5")

¹ The UPS is a not a stand-alone option. For details on a system without a UPS, refer to [Electrical Power, page 2](#).

SonixGPS Arm (optional)

Vertical Adjustment Range	31.9 cm (12.56")	Weight	9 Kg (19.8 lbs)
Swivel Angle	±90° from center	Tilt Angle	±40° from horizontal
Maximum Extension of Three (3) Part Arm	90.4 cm (35.6")		

Imaging Performance

Startup Time (Max)	Avg < 90 seconds	Preset Switching Time	Avg < 1 second
Storage Time (Image to Disk)	Avg < 0.5 seconds		

Software Specifications

System Setup

User-Defined Presets	Yes	Factory Default Presets	Yes
User-Defined Annotations	Yes	Factory Default Annotations	Yes
Customizable Annotation Home Position	Yes		

Software Languages

• English (US)	• French (France, FR-E)
• German (DE)	• Russian (RU)
• Simplified Chinese (CH-M)	• Brazilian Portuguese (BR)
• Spanish (Latin American, SP-L)	• Italian (IT)
• Czech (CZ)	

User Interface

QSonix Exam Wizard	Yes	Annotations	Yes
Pictograms (Body Marks)	Yes	Multiple Arrows	Yes
Programmable Annotations	Yes	Configurable Worksheets	Yes
Cine Playback	Yes	Training Tutorials	Yes
System Setup Menu	Yes	Exam Review	Yes
User-Selectable, Application-Specific Protocols	Yes	User-Programmable Touch Screen Layout	Yes

Measurement/Calculations

User-Programmable Packages	Unlimited	User-Programmable Table	Supported
IMT (Intima-Media Thickness) Measurement	Optional ¹	Auto-Follicle Measurement	Optional ²
Max Onscreen Measurements: Distance	25	Max Onscreen Measurements: Volume	8
Max Onscreen Measurements: Area	12		

¹ Supported transducers: 4DL14-5/38, L14-5/38, L14-5/38 GPS, L9-4/38, L14-5W/60, L40-8/12.

² Supported modes: B, Compound.

System Safety

System Safety Verification	Yes	Antivirus Protection	Yes (1 year free updates)
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Measurements and Calculations

Abdomen / Biliary

All Modes

Abdomen PW	Portal V, Hepatic A, RHV, MHV, LHV	Prostate	L, H, W, Region L, Region H, Region W Calculation: VOL(Prostate), VOL(Region), PSAD
Lt Kidney	L, H, W, CORTEX Calculation: VOL(LtKidney)	Rt Kidney	L, H, W, CORTEX Calculation: VOL(RtKidney)
Lt Kidney PW	Lt Vel Prox, Lt Vel Mid, Lt Vel Dist, Lt Trace Prox, Lt Trace Mid, Lt Trace Dist		
Rt Kidney PW	Rt Vel Prox, Rt Vel Mid, Rt Vel Dist, Rt Trace Prox, Rt Trace Mid, Rt Trace Dist		
Abdomen	Liver, GB, GBWT, CBD, Portal Vein, Spleen, GB L, GB H, GB W Calculation: VOL(GB)		
Aorta	Prox Ao AP, Mid Ao AP, Dist Ao AP, Rt Iliac AP, Lt Iliac AP, Prox Ao Width, Mid Ao Width, Dist Ao Width, Rt Iliac Width, Lt Iliac Width, AAA L, AAA H, AAA W		
Aorta PW	SMA, Celiac, Ao, Rt Iliac A, Lt Iliac A, Rt Iliac V, Lt Iliac V		
Bladder	L, H, W, Blad Wall, Rt Ureter, Lt Ureter, Pre-void L, Pre-void H, Pre-void W, Post-void L, Post-void H, Post-void W Calculation: VOL(Bladder), VOL(Bladder), VOL(Bladder PreVoid), VOL(Bladder PreVoid), VOL(Bladder PostVoid), VOL(Bladder PostVoid)		

Bladder

All Modes

Lt Kidney	L, H, W, CORTEX Calculation: VOL(LtKidney)	Rt Kidney	L, H, W, CORTEX Calculation: VOL(RtKidney)
Bladder	L, H, W, Blad Wall, Rt Ureter, Lt Ureter, Pre-void L, Pre-void H, Pre-void W, Post-void L, Post-void H, Post-void W Calculation: VOL(Bladder), VOL(Bladder), VOL(Bladder PreVoid), VOL(Bladder PreVoid), VOL(Bladder PostVoid), VOL(Bladder PostVoid)		
Dor.PenA	Vessel Area, Stenosis Area, Auto Trace, PS, RI, S/D, Time, Manual Trace, ED, PI, Vessel Dia, Stenosis Dia, HR		
Lt Kidney PW	Lt Vel Prox, Lt Vel Mid, Lt Vel Dist, Lt Trace Prox, Lt Trace Mid, Lt Trace Dist		
Rt Kidney PW	Rt Vel Prox, Rt Vel Mid, Rt Vel Dist, Rt Trace Prox, Rt Trace Mid, Rt Trace Dist		
Lt Renal A.	Lt Vel Prox, Lt Vel Mid, Lt Vel Dist, Lt Trace Prox, Lt Trace Mid, Lt Trace Dist, Lt Upper Pole, Lt Mid, Lt Lower Pole		
Rt Renal A.	Rt Vel Prox, Rt Vel Mid, Rt Vel Dist, Rt Trace Prox, Rt Trace Mid, Rt Trace Dist, Rt Upper Pole, Rt Mid, Rt Lower Pole		
Vessel	Vessel Area, Stenosis Area, Auto Trace, PS, RI, S/D, Time, Manual Trace, ED, PI, Vessel Dia, Stenosis Dia, HR		

Breast

All Modes

Left Breast LtL1, LtL2, LtL3, LtL4, LtL5

Right Breast RtL1, RtL2, RtL3, RtL4, RtL5

Cardiac

B-Mode

MV	Diameter, MVA (Trace), HR	LV Mass A/L	Epi Area, Endo Area, LV Length, HR Calculation: Myocardial Thick., LV Mass
LA/Ao	Ao Root, LA, Asc Ao, LVOT Diam, AVA (Trace), HR Calculation: LA/Ao Ratio [2D]		
LV Sims.	A4C Dias, A4C Sys, A2C Dias, A2C Sys, HR Calculation: EDV(Simpsons), SV(Simpsons A4C), EF(Simpsons A4C), CO(Simpsons A4C), SV(Simpsons), EF(Simpsons), CO(Simpsons), ESV(Simpsons), SV(Simpsons A2C), EF(Simpsons A2C), CO(Simpsons A2C)		
Qp/Qs	LVOT VTI, RVOT VTI, LVOT Diam, RVOT Diam, HR Calculation: LVOT SV, Qp/Qs, RVOT SV, LVOT Area, RVOT Area		
RV/LV	RVWd, RVDd, IVSd, LVDd, LVPWd, RVWs, RVDs, IVSs, LVDs, LVPWs, HR Calculation: LV Mass [2D], IVS FT, LVEDV(Teich) [2D], LVEDV(Cubed) [2D], LVEDV(Gibson) [2D], EF(Teich) [2D], EF(Cubed) [2D], EF(Gibson) [2D], SV(Teich) [2D], SV(Cubed) [2D], SV(Gibson) [2D], CO(Teich) [2D], CO(Cubed) [2D], CO(Gibson) [2D], FS [2D], LVESV(Teich) [2D], LVESV(Cubed) [2D], LVESV(Gibson) [2D]		

Dual B/Quad B

MV	Diameter, MVA (Trace), HR	LV Mass A/L	Epi Area, Endo Area, LV Length, HR Calculation: Myocardial Thick., LV Mass
LA/Ao	Ao Root, LA, Asc Ao, LVOT Diam, AVA (Trace), HR Calculation: LA/Ao Ratio [2D]		
LV Sims.	A4C Dias, A4C Sys, A2C Dias, A2C Sys, HR Calculation: EDV(Simpsons), SV(Simpsons A4C), EF(Simpsons A4C), CO(Simpsons A4C), SV(Simpsons), EF(Simpsons), CO(Simpsons), ESV(Simpsons), SV(Simpsons A2C), EF(Simpsons A2C), CO(Simpsons A2C)		
RV/LV	RVWd, RVDd, IVSd, LVDd, LVPWd, RVWs, RVDs, IVSs, LVDs, LVPWs, HR Calculation: LV Mass [2D], IVS FT, LVEDV(Teich) [2D], LVEDV(Cubed) [2D], LVEDV(Gibson) [2D], EF(Teich) [2D], EF(Cubed) [2D], EF(Gibson) [2D], SV(Teich) [2D], SV(Cubed) [2D], SV(Gibson) [2D], CO(Teich) [2D], CO(Cubed) [2D], CO(Gibson) [2D], FS [2D], LVESV(Teich) [2D], LVESV(Cubed) [2D], LVESV(Gibson) [2D]		

Cardiac

Compound/Dual Compound (optional)

LV Mass A/L	Epi Area, Endo Area, LV Length, HR Calculation: Myocardial Thick., LV Mass	MV	Diameter, MVA (Trace), HR
LA/Ao	Ao Root, LA, Asc Ao, LVOT Diam, AVA (Trace), HR Calculation: LA/Ao Ratio [2D]		
LV Simps.	A4C Dias, A4C Sys, A2C Dias, A2C Sys, HR Calculation: EDV(Simpsons), SV(Simpsons A4C), EF(Simpsons A4C), CO(Simpsons A4C), SV(Simpsons), EF(Simpsons), CO(Simpsons), ESV(Simpsons), SV(Simpsons A2C), EF(Simpsons A2C), CO(Simpsons A2C)		
RV/LV	RVWd, RVDd, IVSd, LVDd, LVPWd, RVWs, RVDs, IVSs, LVDs, LVPWs, HR Calculation: LV Mass [2D], IVS FT, LVEDV(Teich) [2D], LVEDV(Cubed) [2D], LVEDV(Gibson) [2D], EF(Teich) [2D], EF(Cubed) [2D], EF(Gibson) [2D], SV(Teich) [2D], SV(Cubed) [2D], SV(Gibson) [2D], CO(Teich) [2D], CO(Cubed) [2D], CO(Gibson) [2D], FS [2D], LVESV(Teich) [2D], LVESV(Cubed) [2D], LVESV(Gibson) [2D]		

M-Mode

LA/Ao (M)	Ao Root, LA Diam, ACS, Ao Root Ampl., ET, HR Calculation: LA/Ao Ratio [M]	MV (M)	D-E Excursion, E-F Slope, A-C, EPSS, HR
RV/LV (M)	RVWd, RVDd, IVSd, LVDd, LVPWd, RVWs, RVDs, IVSs, LVDs, LVPWs, HR Calculation: LV Mass [M], LVEDV(Teich) [M], LVEDV(Cubed) [M], LVEDV(Gibson) [M], EF(Teich) [M], EF(Cubed) [M], EF(Gibson) [M], SV(Teich) [M], SV(Cubed) [M], SV(Gibson) [M], CO(Teich) [M], CO(Cubed) [M], CO(Gibson) [M], FS [M], LVESV(Teich) [M], LVESV(Cubed) [M], LVESV(Gibson) [M]		

Color M

LA/Ao (M)	Ao Root, LA Diam, ACS, Ao Root Ampl., ET, HR Calculation: LA/Ao Ratio [M]	MV (Color)	Dist A, Dist B, A (Trace), PISA, Diameter, HR Calculation: PISA ERO
MV (M)	D-E Excursion, E-F Slope, A-C, EPSS, HR	TV (Color)	TV Diam, PISA, HR
RV/LV (M)	RVWd, RVDd, IVSd, LVDd, LVPWd, RVWs, RVDs, IVSs, LVDs, LVPWs, HR Calculation: LV Mass [M], LVEDV(Teich) [M], LVEDV(Cubed) [M], LVEDV(Gibson) [M], EF(Teich) [M], EF(Cubed) [M], EF(Gibson) [M], SV(Teich) [M], SV(Cubed) [M], SV(Gibson) [M], CO(Teich) [M], CO(Cubed) [M], CO(Gibson) [M], FS [M], LVESV(Teich) [M], LVESV(Cubed) [M], LVESV(Gibson) [M]		

Cardiac

Anatomical M

LA/Ao (M)	Ao Root, LA Diam, ACS, Ao Root Ampl., ET, HR Calculation: LA/Ao Ratio [M]	MV (M)	D-E Excursion, E-F Slope, A-C, EPSS, HR
RV/LV (M)	RVWd, RVDd, IVSd, LVDd, LVPWd, RVWs, RVDs, IVSs, LVDs, LVPWs, HR Calculation: LV Mass [M], LVEDV(Teich) [M], LVEDV(Cubed) [M], LVEDV(Gibson) [M], EF(Teich) [M], EF(Cubed) [M], EF(Gibson) [M], SV(Teich) [M], SV(Cubed) [M], SV(Gibson) [M], CO(Teich) [M], CO(Cubed) [M], CO(Gibson) [M], FS [M], LVESV(Teich) [M], LVESV(Cubed) [M], LVESV(Gibson) [M]		

Simultaneous 2D/Color

MV (Color)	Dist A, Dist B, A (Trace), PISA, Diameter, HR Calculation: PISA ERO	TV (Color)	TV Diam, PISA, HR
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Dual Color (optional)

MV (Color)	Dist A, Dist B, A (Trace), PISA, Diameter, HR Calculation: PISA ERO	TV (Color)	TV Diam, PISA, HR
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Color Doppler

MV (Color)	Dist A, Dist B, A (Trace), PISA, Diameter, HR Calculation: PISA ERO	TV (Color)	TV Diam, PISA, HR
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Pulsed Wave (PW) Doppler

AV (CONT. EQ)	LVOT Diam, LVOT Peak, LVOT VTI, AV Peak, AV VTI, HR Calculation: LVOT Area, AVA, CO		
AV (Doppler)	LVOT Peak, LVOT VTI, AV Peak, AV VTI, AR PHT, End Dias. Vel, LVOT Diam, HR Calculation: AVA, CO, LVOT Area, LVOT SV	MV (Doppler)	Peak E, Peak A, PHT, MV VTI, MV Acc, A Dur, E Dur, IVRT, MR Peak, E/Ea, HR Calculation: E/A Ratio, E/E' Ratio
PV (Doppler)	PV Peak, PV VTI, PV AccT, RVOT VTI, RV ET, RV AcT, RV PEP, PR Peak, HR	TV (Doppler)	TV Peak E, TV Peak A, TV PHT and Dec, TV VTI, TV Acc, TR Peak, TR VTI, HR Calculation: RVSP
Pulm. Vein	PulmV PeakS, PulmV PeakD, PulmV PeakA, PulmV A Dur, HR Calculation: S/D Ratio	Qp/Qs	LVOT VTI, RVOT VTI, LVOT Diam, RVOT Diam, HR Calculation: LVOT SV, Qp/Qs, RVOT SV, LVOT Area, RVOT Area

Cardiac

Continuous Wave (CW) Doppler

AV (CONT. EQ)	LVOT Diam, LVOT Peak, LVOT VTI, AV Peak, AV VTI, HR Calculation: LVOT Area, AVA, CO		
AV (Doppler)	LVOT Peak, LVOT VTI, AV Peak, AV VTI, AR PHT, End Dias.Vel, LVOT Diam, HR Calculation: AVA, CO, LVOT Area, LVOT SV	MV (Doppler)	Peak E, Peak A, PHT, MV VTI, MV Acc, A Dur, E Dur, IVRT, MR Peak, E/Ea, HR Calculation: E/A Ratio, E/E' Ratio
PV (Doppler)	PV Peak, PV VTI, PV AccT, RVOT VTI, RV ET, RV AcT, RV PEP, PR Peak, HR	TV (Doppler)	TV Peak E, TV Peak A, TV PHT and Dec, TV VTI, TV Acc, TR Peak, TR VTI, HR Calculation: RVSP
Pulm. Vein	PulmV PeakS, PulmV PeakD, PulmV PeakA, PulmV A Dur, HR Calculation: S/D Ratio	Qp/Qs	LVOT VTI, RVOT VTI, LVOT Diam, RVOT Diam, HR Calculation: LVOT SV, Qp/Qs, RVOT SV, LVOT Area, RVOT Area

Triplex

AV (CONT. EQ)	LVOT Diam, LVOT Peak, LVOT VTI, AV Peak, AV VTI, HR Calculation: LVOT Area, AVA, CO		
AV (Doppler)	LVOT Peak, LVOT VTI, AV Peak, AV VTI, AR PHT, End Dias.Vel, LVOT Diam, HR Calculation: AVA, CO, LVOT Area, LVOT SV	MV (Doppler)	Peak E, Peak A, PHT, MV VTI, MV Acc, A Dur, E Dur, IVRT, MR Peak, E/Ea, HR Calculation: E/A Ratio, E/E' Ratio
PV (Doppler)	PV Peak, PV VTI, PV AccT, RVOT VTI, RV ET, RV AcT, RV PEP, PR Peak, HR	TV (Doppler)	TV Peak E, TV Peak A, TV PHT and Dec, TV VTI, TV Acc, TR Peak, TR VTI, HR Calculation: RVSP
Pulm. Vein	PulmV PeakS, PulmV PeakD, PulmV PeakA, PulmV A Dur, HR Calculation: S/D Ratio	Qp/Qs	LVOT VTI, RVOT VTI, LVOT Diam, RVOT Diam, HR Calculation: LVOT SV, Qp/Qs, RVOT SV, LVOT Area, RVOT Area

Miscellaneous

Generic

General	Distance, Area, Strain Ratio, HR, Velocity, Time, Time/Slope, Trace, Trace (Pelvic), Trace (Cardiac), Trace (Abdomen), Trace (Vascular), Trace (Small Parts), Trace (MSK), Trace (Urology), Trace (OB 1st Trimester), Trace (OB 2nd-3rd Trimesters), Range, Range (Pelvic), Range (Cardiac), Range (Abdomen), Range (Vascular), Range (MSK), Range (Urology), Range (OB 1st Trimester), Range (OB 2nd-3rd Trimesters), Diam Red, Area Red, d:D Ratio, Acceleration, Angle
Volume	L, H, W Calculation: VOL(Generic)

Live Trace - B

Doppler Trace (Abdomen)	Trace	Doppler Trace (Cardiac)	Trace
Doppler Trace (Generic)	Trace	Doppler Trace (MSK)	Trace
Doppler Trace (OB 1st Trimester)	Trace	Doppler Trace (OB 2nd – 3rd Trimesters)	Trace
Doppler Trace (Pelvic)	Trace	Doppler Trace (Small Parts)	Trace
Doppler Trace (Urology)	Trace	Doppler Trace (Vascular)	Trace

MSK

MSK	Distance, Area, Hip Angle ¹ , Strain Ratio ²
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¹ MSK Hip Angle measurements include a Graf classification entry in the Report.

² Available only in Elastography.

Measure Live

All Modes

Distance	Live Distance
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OB 1st Trimester

B-Mode

Fetal Biometry	BPD, HC, OFD, FL, AC, TAD, APAD, CxLength, CEREB, FTA, TTD, APTD, Nasal, BND Calculation: GA(user), EFW, FL/BPD, FL/HC, HC/AC, CI(HC), HC(OFD), FL/AC
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All Modes

Early OB	GS, CRL, YS, NT, BPD, Cx Length Calculation: GS AVG, GA(user), EFW	Fetal Doppler	FHR, Umb A, Umb A-PI, MCA, MCA-PI, SD Ratio
Fetal Heart	FHR	Maternal Doppler	Lt Uterine Artery, Rt Uterine Artery
Lt Ovary	Lt Ovary L, Lt Ovary H, Lt Ovary W, Lt Cyst 1 L, Lt Cyst 1 H, Lt Cyst 1 W, Lt Cyst 2 L, Lt Cyst 2 H, Lt Cyst 2 W		
Rt Ovary	Rt Ovary L, Rt Ovary H, Rt Ovary W, Rt Cyst 1 L, Rt Cyst 1 H, Rt Cyst 1 W, Rt Cyst 2 L, Rt Cyst 2 H, Rt Cyst 2 W Calculation: VOL(RtOvary), VOL(RtOvary Cyst1), VOL(RtOvary Cyst2)		
Uterus	Uterus L, Uterus H, Uterus W, Endom Thick, Fibroid 1 L, Fibroid 1 H, Fibroid 1 W, Fibroid 2 L, Fibroid 2 H, Fibroid 2 W Calculation: VOL(Uterus), VOL(Fibroid1), VOL(Fibroid2)		

OB 2nd-3rd Trimesters

All Modes

AFI	Q1, Q2, Q3, Q4 Calculation: AFI	Fetal Heart	FHR
Early OB	GS, CRL, YS, NT, BPD, CxLength Calculation: GS AVG, GA(user), EFW		
Long Bones	HL, UL, TL, FL, Radius, Fibula Calculation: GA(user), EFW, FL/AC, FL/BPD, FL/HC		
Maternal Doppler	Lt Uterine Artery, Rt Uterine Artery		
Fetal Biometry	BPD, HC, OFD, FL, AC, TAD, APAD, CxLength, CEREB, FTA, TTD, APTD, Nasal, BND Calculation: GA(user), EFW, FL/BPD, FL/HC, HC/AC, CI(HC), HC(OFD), FL/AC		
Fetal Doppler	FHR, Umb A, Umb A-PI, MCA, MCA-PI, SD Ratio		

Pelvic

All Modes

Fetal Heart	FHR
Ovarian D	Auto Trace, PS, RI, S/D, Time, Manual Trace, ED, PI, HR
Lt Ovary	Lt Ovary L, Lt Ovary H, Lt Ovary W, Cyst 1 L, Cyst 1 H, Cyst 1 W, Cyst 2 L, Cyst 2 H, Cyst 2 W Calculation: VOL(LtOvary), VOL(LtOvary Cyst1), VOL(LtOvary Cyst2)
Rt Ovary	Rt Ovary L, Rt Ovary H, Rt Ovary W, Cyst 1 L, Cyst 1 H, Cyst 1 W, Cyst 2 L, Cyst 2 H, Cyst 2 W Calculation: VOL(RtOvary), VOL(RtOvary Cyst1), VOL(RtOvary Cyst2)
LtFollicle	F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12, F13, F14, F15, F16, F17, F18, F19, F20, F21, F22, F23, F24, F25, F26, F27, F28, F29, F30 Calculation: F1 Vol, Lt F1 Avg Dist, F2 Vol, Lt F2 Avg Dist, F3 Vol, Lt F3 Avg Dist, F4 Vol, Lt F4 Avg Dist, F5 Vol, Lt F5 Avg Dist, F6 Vol, Lt F6 Avg Dist, F7 Vol, Lt F7 Avg Dist, F8 Vol, Lt F8 Avg Dist, F9 Vol, Lt F9 Avg Dist, F10 Vol, Lt F10 Avg Dist, F11 Vol, Lt F11 Avg Dist, F12 Vol, Lt F12 Avg Dist, F13 Vol, Lt F13 Avg Dist, F14 Vol, Lt F14 Avg Dist, F15 Vol, Lt F15 Avg Dist, F16 Vol, Lt F16 Avg Dist, F17 Vol, Lt F17 Avg Dist, F18 Vol, Lt F18 Avg Dist, F19 Vol, Lt F19 Avg Dist, F20 Vol, Lt F20 Avg Dist, F21 Vol, Lt F21 Avg Dist, F22 Vol, Lt F22 Avg Dist, F23 Vol, Lt F23 Avg Dist, F24 Vol, Lt F24 Avg Dist, F25 Vol, Lt F25 Avg Dist, F26 Vol, Lt F26 Avg Dist, F27 Vol, Lt F27 Avg Dist, F28 Vol, Lt F28 Avg Dist, F29 Vol, Lt F29 Avg Dist, F30 Vol, Lt F30 Avg Dist
RtFollicle	F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12, F13, F14, F15, F16, F17, F18, F19, F20, F21, F22, F23, F24, F25, F26, F27, F28, F29, F30 Calculation: F1 Vol, Rt F1 Avg Dist, F2 Vol, Rt F2 Avg Dist, F3 Vol, Rt F3 Avg Dist, F4 Vol, Rt F4 Avg Dist, F5 Vol, Rt F5 Avg Dist, F6 Vol, Rt F6 Avg Dist, F7 Vol, Rt F7 Avg Dist, F8 Vol, Rt F8 Avg Dist, F9 Vol, Rt F9 Avg Dist, F10 Vol, Rt F10 Avg Dist, F11 Vol, Rt F11 Avg Dist, F12 Vol, Rt F12 Avg Dist, F13 Vol, Rt F13 Avg Dist, F14 Vol, Rt F14 Avg Dist, F15 Vol, Rt F15 Avg Dist, F16 Vol, Rt F16 Avg Dist, F17 Vol, Rt F17 Avg Dist, F18 Vol, Rt F18 Avg Dist, F19 Vol, Rt F19 Avg Dist, F20 Vol, Rt F20 Avg Dist, F21 Vol, Rt F21 Avg Dist, F22 Vol, Rt F22 Avg Dist, F23 Vol, Rt F23 Avg Dist, F24 Vol, Rt F24 Avg Dist, F25 Vol, Rt F25 Avg Dist, F26 Vol, Rt F26 Avg Dist, F27 Vol, Rt F27 Avg Dist, F28 Vol, Rt F28 Avg Dist, F29 Vol, Rt F29 Avg Dist, F30 Vol, Rt F30 Avg Dist
Uterus	Uterus L, Uterus H, Uterus W, Endom Thick, CxLength, Fibroid 1 L, Fibroid 1 H, Fibroid 1 W, Fibroid 2 L, Fibroid 2 H, Fibroid 2 W Calculation: VOL(Uterus), VOL(Fibroid1), VOL(Fibroid2)
Uterine D	Auto Trace, PS, RI, S/D, Time, Manual Trace, ED, PI, HR
Vessel	Auto Trace, PS, RI, S/D, Time, Manual Trace, ED, PI, HR

Renal

All Modes

Lt Kidney	L, H, W, CORTEX Calculation: VOL(LtKidney)	Rt Kidney	L, H, W, CORTEX Calculation: VOL(RtKidney)
Lt Kidney PW	Lt Vel Prox, Lt Vel Mid, Lt Vel Dist, Lt Trace Prox, Lt Trace Mid, Lt Trace Dist	Rt Kidney PW	Rt Vel Prox, Rt Vel Mid, Rt Vel Dist, Rt Trace Prox, Rt Trace Mid, Rt Trace Dist
Lt Renal A.	Lt Vel Prox, Lt Vel Mid, Lt Vel Dist, Lt Trace Prox, Lt Trace Mid, Lt Trace Dist, Lt Upper Pole, Lt Mid, Lt Lower Pole	Rt Renal A.	Rt Vel Prox, Rt Vel Mid, Rt Vel Dist, Rt Trace Prox, Rt Trace Mid, Rt Trace Dist, Rt Upper Pole, Rt Mid, Rt Lower Pole
Bladder	L, H, W, Blad Wall, Rt Ureter, Lt Ureter, Pre-void L, Pre-void H, Pre-void W, Post-void L, Post-void H, Post-void W Calculation: VOL(Bladder), VOL(Bladder), VOL(Bladder PreVoid), VOL(Bladder PreVoid), VOL(Bladder PostVoid), VOL(Bladder PostVoid)		
Dor.PenA	Vessel Area, Stenosis Area, Auto Trace, PS, RI, S/D, Time, Manual Trace, ED, PI, Vessel Dia, Stenosis Dia, HR		
Vessel	Vessel Area, Stenosis Area, Auto Trace, PS, RI, S/D, Time, Manual Trace, ED, PI, Vessel Dia, Stenosis Dia, HR		

Small Parts

All Modes

Lt Testicle	L, H, W Calculation: VOL(LtTesticle)	Rt Testicle	L, H, W Calculation: VOL(RtTesticle)
Lt Nodule	L, H, W, Isthmus, 1 T, 1 A/P, 1 L, 2 T, 2 A/P, 2 L, 3 T, 3 A/P, 3 L, 4 T, 4 A/P, 4 L Calculation: VOL(LtNodule), Vol	Rt Nodule	L, H, W, Isthmus, 1 T, 1 A/P, 1 L, 2 T, 2 A/P, 2 L, 3 T, 3 A/P, 3 L, 4 T, 4 A/P, 4 L Calculation: VOL(RtNodule), Vol
Lt Thyroid	L, H, W, Isthmus, Trans, A/P, Sag, Isth Nod 1 T, Isth Nod 1 A/P, Isth Nod 1 L, Isth Nod 2 T, Isth Nod 2 A/P, Isth Nod 2 L Calculation: VOL(LtThyroid), Vol	Rt Thyroid	L, H, W, Isthmus, Trans, A/P, Sag, Isth Nod 1 T, Isth Nod 1 A/P, Isth Nod 1 L, Isth Nod 2 T, Isth Nod 2 A/P, Isth Nod 2 L Calculation: VOL(RtThyroid), Vol
Vessel	Vessel Area, Stenosis Area, Auto Trace, PS, RI, S/D, Time, Manual Trace, ED, PI, Vessel Diam, Stenosis Diam, HR		

Elastography

Lt Nodule	Strain Ratio	Rt Nodule	Strain Ratio
Lt Thyroid	Strain Ratio	Rt Thyroid	Strain Ratio

Urology

All Modes

Dor.PenA	Vessel Area, Stenosis Area, Auto Trace, PS, RI, S/D, Time, Manual Trace, ED, PI, Vessel Dia, Stenosis Dia, HR	Prostate	L, H, W, Region L, Region H, Region W Calculation: VOL(Prostate), VOL(Region), PSAD
Lt Testicle	L, H, W Calculation: VOL(LtTesticle)	Rt Testicle	L, H, W Calculation: VOL(RtTesticle)
Lt Kidney	L, H, W, CORTEX Calculation: VOL(LtKidney)	Rt Kidney	L, H, W, CORTEX Calculation: VOL(RtKidney)
Lt Kidney PW	Lt Vel Prox, Lt Vel Mid, Lt Vel Dist, Lt Trace Prox, Lt Trace Mid, Lt Trace Dist		
Rt Kidney PW	Rt Vel Prox, Rt Vel Mid, Rt Vel Dist, Rt Trace Prox, Rt Trace Mid, Rt Trace Dist		
Lt Renal A.	Lt Vel Prox, Lt Vel Mid, Lt Vel Dist, Lt Trace Prox, Lt Trace Mid, Lt Trace Dist, Lt Upper Pole, Lt Mid, Lt Lower Pole		
Rt Renal A.	Rt Vel Prox, Rt Vel Mid, Rt Vel Dist, Rt Trace Prox, Rt Trace Mid, Rt Trace Dist, Rt Upper Pole, Rt Mid, Rt Lower Pole		
Bladder	L, H, W, Blad Wall, Rt Ureter, Lt Ureter, Pre-void L, Pre-void H, Pre-void W, Post-void L, Post-void H, Post-void W Calculation: VOL(Bladder), VOL(Bladder), VOL(Bladder PreVoid), VOL(Bladder PreVoid), VOL(Bladder PostVoid), VOL(Bladder PostVoid)		
Vessel	Vessel Area, Stenosis Area, Auto Trace, PS, RI, S/D, Time, Manual Trace, ED, PI, Vessel Dia, Stenosis Dia, HR		

Vascular

B-Mode/Dual B/Quad B/Compound/Dual Compound

Intima	IMT, Rt Prox CCA, Rt Mid CCA, Rt Dist CCA, Rt Bulb, Lt Prox CCA, Lt Mid CCA, Lt Dist CCA, Lt Bulb
Stenosis A	Rt Prox CCA, Rt Mid CCA, Rt Dist CCA, Rt Bulb, Rt Dist CCA, Rt Bulb, Rt Prox ICA, Rt Mid ICA, Rt Dist ICA, Lt Prox CCA, Lt Mid CCA, Lt Dist CCA, Lt Bulb, Lt Prox ICA, Lt Mid ICA, Lt Dist ICA Calculation: %STA, %STD
Stenosis D	Rt Prox CCA, Rt Mid CCA, Rt Dist CCA, Rt Bulb, Rt Prox ICA, Rt Mid ICA, Rt Dist ICA, Lt Prox CCA, Lt Mid CCA, Lt Dist CCA, Lt Bulb, Lt Prox ICA, Lt Mid ICA, Lt Dist ICA Calculation: %STA, %STD

PW Mode

Arterial SOCD¹	Rt VA, Lt VA, BA
Arterial TCD¹	Rt MCA, Lt MCA, Rt PCA, Lt PCA, Rt ACA, Lt ACA, Rt P COM A, Lt P COM A

¹ Supported transducer: SA4-2/24.

All Modes

Arterial	Distance, Area, HR, Velocity, Time/Slope, Trace, Range, Diam Red, Area Red, d:D Ratio, Diameter, Mean Velocity Calculation: VolFlow
Lt Carotid	Lt Prox CCA, Lt Mid CCA, Lt Dist CCA, Lt Bulb, Lt Prox ICA, Lt Mid ICA, Lt Dist ICA, Lt Prox ECA, Lt Mid ECA, Lt Dist ECA, Lt Vert Art, Lt Sub Clav
Rt Carotid	Rt Prox CCA, Rt Mid CCA, Rt Dist CCA, Rt Bulb, Rt Prox ICA, Rt Mid ICA, Rt Dist ICA, Rt Prox ECA, Rt Mid ECA, Rt Dist ECA, Rt Vert Art, Rt Sub Clav
Venous	Rt GSV Prox, Rt GSV Mid, Rt GSV Dist, Rt CFV, Rt SFV Prox, Rt SFV Mid, Rt POPV, Rt LSV Prox, Rt LSV Dist, Lt GSV Prox, Lt GSV Mid, Lt GSV Dist, Lt CFV, Lt SFV Prox, Lt SFV Mid, Lt POPV, Lt LSV Prox, Lt LSV Dist, Distance, Time

Measurement Tables

OB Fetal Age

AC	BC Women's, Crequat, Hadlock, Hansmann, Tokyo	GS	Hansmann, Hellman, Nyberg, Rempen
APAD	Persson	HC	Altman and Chitty, BC Women's, Crequat, Hadlock, Hansmann
BND	Crequat, Jeanty, Tongsong	HL	Jeanty
BPD	BC Women's, DSOG, Eik-Nes, eSnurra, Hadlock, Hansmann, Hobbins, Kurtz, Osaka, Persson, Robinson, Selbing-Kjessler, Tokyo	OFD	Hansmann
CEREB	Hill	TAD	Crequat, eSnurra
CRL	BC Women's, DSOG, Hadlock, Hansmann, Hobbins, Loughna, Osaka, Persson, Rempen, Robinson	TL	Hobbins, Jeanty
Fibula	Hobbins	TTD	Hansmann
FL	Altman and Chitty, BC Women's, Crequat, DSOG, eSnurra, Hadlock, Hansmann, Merz, Osaka, Persson, Tokyo	UL	Jeanty
FTA	Osaka		

OB Fetal Growth

AC	BC Women's, Chitty, Crequat, Hadlock, Tokyo	FL/HC	Hadlock
AFI	Moore	FTA	Osaka
BPD	BC Women's, Crequat, Eik-Nes, eSnurra, Hadlock, Hobbins, Kurtz, Osaka, Robinson, Selbing-Kjessler, Tokyo	HC	BC Women's, Chitty, Crequat, Hadlock
CI (HC)	Hadlock	HC/AC	Campbell
CRL	BC Women's, Hadlock, Hobbins, Osaka, Robinson	HL	Jeanty
Fibula	Hobbins	TAD	Crequat, eSnurra
FL	BC Women's, Chitty, Crequat, Snurra, Hadlock, Jeanty, Osaka, Tokyo	TC	BC Women's
FL/AC	Hadlock	TL	Hobbins
FL/BDP	Hohler		

OB Fetal Growth Ratios

CI (HC)	Hadlock	FL/BPD	Hohler	HC/AC	Campbell
FL/AC	Hadlock	FL/HC	Hadlock		

Measurement Tables

OB Estimated Fetal Weight

AC/BPD/FL	Hadlock	BPD/TTD	Hansmann
AC/BPD/FL/HC	Hadlock	BPD/FTA/FL	Osaka
AC/FL	Hadlock	BPD/APAD/TAD	DSOG, Persson
AC/FL/HC	Hadlock	BPD/APAD/TAD/FL	DSOG, Persson
BPD/AC	Hadlock	BPD/APTD/TTD/FL	Tokyo
BPD/TAD	Eik-Nes		

OB Birth Weight

BW Brenner, Doubile, Hadlock, Osaka

Cardiac

- **Cubed**
- **Gibson**
- **Teichholz**

Measurement Tools

B-Mode

Distance	Point-to-Point, Curved	Area	Cross, Ellipse, Trace, Point-to-Point
Hip Angle	Hip Angle	Diameter Reduction	Point-to-Point
Angle	Vector Angle	D:d Ratio	D:d Ratio
Area Reduction	Ellipse/Ellipse, Ellipse/Trace, Trace/Trace		

Doppler

Heart Rate	Heart Rate	Velocity	Single, Double (PSV/EDV)
Time	Time	Time/Slope	Time/Distance/Slope
Trace	Point-to-Point, Trace, Range	Acceleration	Acceleration
Auto-trace	PSV, EDV, MV, AT, DT, RI, PI, SD, VTI, PGr, MGr, HR		

Imaging Modes and Analysis Packages

Imaging Modes

B	Yes	Compound	Optional
Dual B	Yes	Dual Compound	Optional
Quad B	Yes	PW	Yes
Color (and Power)	Yes	CW	Optional
Dual Color	Yes	Triplex	Yes
Tissue Doppler Imaging (TDI)	Optional	Freehand 3D	Optional
Flow Imaging (Color and Power)	Optional	Standard 3D/4D	Optional
Color M	Optional	Advanced 3D/4D	Optional
M	Yes	Panoramic	Optional
Anatomical M	Optional	Elastography¹	Optional
Simultaneous 2D/Color	Yes	Elastography Comparative¹	Optional

¹ Supported transducers: MC9-4/12, EC9-5/10, C5-2/60, C5-2/60GPS, C7-3/50, C9-5/10, BPC8-4/10, BPL9-5/55, L9-4/38, L14-5/38, L14-5/38GPS, L40-8/12, HST15-8/20, 4DC7-3/40, 4DEC9-5/10, 4DL14-5/38.

Combined Imaging Modes

• B/M	• B B/C	• B/C/M	• B/PW
• Dual B/C	• B/CW	• B/C/PW	• B/C/CW
• Dual B/Power	• B/Power/M	• B/Power/PW	• B/Power/CW
• Dual Compound	• B B/Power	• B/Elasto ¹	• B B/Elasto ¹
• Dual B	• Quad B	• B B/TDI	• B/TDI/PW
• Dual B/TDI	• B/TDI/M	• B/TDI/CW	

¹ Supported transducers: MC9-4/12, EC9-5/10, C5-2/60, C5-2/60GPS, C7-3/50, C9-5/10, BPC8-4/10, BPL9-5/55, L9-4/38, L14-5/38, L14-5/38GPS, L40-8/12, HST15-8/20, 4DC7-3/40, 4DEC9-5/10, 4DL14-5/38.

B-Mode

Chroma	8	Map	17
Depth	Max 36 cm	Persistence /Frame Average	up to 7
Frame Rate	400 Hz ¹	Frame Rate Levels	Med, High, Max
Grayscale Levels	256	Gain	0–100%
Dynamic Range	145 dB	Total Dynamic Range	290 dB
Focus Count	Max 10	Auto-Focus	Yes
Reverse Top/Bottom	Yes	Reverse Left /Right	Yes
TGC	Touch screen-driven	Acoustic Power	0 –> (-15) dB
Max Line Density	512	Max Steer Angle	17.5°
Dual/Quad Imaging	Yes	Sector Size	Yes
Multi-Frequency	EPI, Penetration, General, Resolution, Harmonics-Resolution, Harmonics-Penetration		
Clarity Adaptive Speckle Reduction	Off, Low, Med, High, Max		

¹ Maximum Frame Rate is transducer-dependant.

M-Mode

Gain	0–100%	Sweep Speeds	Low, Med1, Med2, High1, High2
Maps	16	Chroma	17
Max Steer Angle	15°	Anatomic M-Mode	Optional
Side-by-Side Layout	Yes	Top/Bottom Layout	Yes (2 sizes)
Distance	Point-to-Point	Heart Rate	Heart Rate
Time	Time	Time / Slope	Time/Distance / Slope
Diameter Reduction	Point-to-Point		

Color Mode

Gain	0–100%	Frame Rate Levels	Med, High, Max
Color Modes	Color, Power	Color Visibility	Off/On
Flow Imaging Modes (Color, Power)	Optional	Doppler Multi-Frequency	2MHz–10MHz (transducer dependent)
Doppler Steer Angles	Yes (5 steps)	Max Steer Angle	15°
PRF	0.2 kHz–>10 kHz	Priority	0–250
Color Map	9	Wall Filter	1–50% of PRF
Baseline	Yes	Persistence/Frame Average	up to 9 frames
Line Density Max	256 lines	Ensemble Length	6–16
Invert	Yes	Color M-Mode	Optional
Color ROI	Yes	Tissue Doppler Imaging (TDI)	Optional

PW Mode

Doppler Multi-Frequency	2 MHz–10 MHz (transducer dependent)	Doppler Steer Angles	5 steps
Max Steering Angle	15°	Correction Angle	80°/-80°
Spectrum Filter (Edge)	0–12	Sample volume size	0.5 mm–40 mm
Auto-Trace	Yes	Audio	0–100%
Gain	0–100%	Scale	Yes
Baseline	Yes	Sweep Speeds	Low, Med1, Med2, High1, High2
Side-by-Side Layout	Yes	Top/Bottom Layout	Yes (2 sizes)
Chroma	17	Maps	3
Invert	Yes	Duplex	Yes
Triplex	Yes		

CW Mode (optional)

Doppler Multi-Frequency	2.5 MHz ¹ OR 1.67 MHz ² , 2 MHz, 2.5 MHz, 3.33 MHz, 4MHz	Doppler Steer Angles	5 steps
Max Steering Angle	15°	Correction Angle	80°/-80°
Spectrum Filter (Edge)	0–12	Sample Volume Size	0.5 mm–40 mm
Auto-Trace	Yes	Audio	0–100%
Gain	0–100%	Scale	Yes
Baseline	Yes	Sweep Speeds	Low, Med1, Med2, High1, High2
Side-by-Side Layout	Yes	Top/Bottom Layout	Yes (2 sizes)
Chroma	17	Maps	3
Invert	Yes	Duplex	Yes

¹ Applies to systems with Serial Numbers beginning SXTCH1.x–2.x, MDP1.x–2.x, SP1.x–2.x, and OP1.x–2.x, unless the modulo Serial Number begins HRVMOD or HW4MOD.

² Applies to systems with Serial Numbers beginning SXTCH3.x–4.x, MDP3.x–4.x, SP3.x–4.x, OP3.x–4.x and/or modulus with Serial Numbers beginning HRVMOD or HW4MOD.

Freehand 3D Mode (optional)

Methods	Parallel (Linear), Fan	Field of View (Max)	5°–75°
3D ROI	Yes	Frames per Volume	3–125
Line Density	64–192	Rendering Quality	Low, Med, High
Rendering Methods	Surface Surface Smooth Maximum X-Ray	Viewing Options	A/B/C/VR A/VR C/VR V
3D Niche Mode	Yes	Measurements	Yes
Sculpt	Yes	Annotations	Yes
Contrast	Yes	Threshold	Yes
Maps	17		

Standard 3D/4D Mode (optional)

One Sweep 3D	Yes	Field of View (Max)	5°–75°
3D ROI	Yes	Frames per Volume	3–125
Line Density	64–192	Rendering Quality	Low, Med, High
Rendering Methods	Surface Surface Smooth Maximum X-Ray	Viewing Options	A/B/C/VR A/VR C/VR V
3D Niche Mode	Yes	Measurements	Yes
Sculpt	Yes	Annotations	Yes
Contrast	Yes	Threshold	Yes
Maps	17		

Advanced 3D/4D Mode (optional)

Live 3D/4D Imaging	5°–75°	One Sweep 3D	Yes
Rendering 3D ROI	Yes	Field of View (Max)	3–125
Frames per Volume	3–125	Max Volume Rate	3
Rendering Quality	Low, Med, High	Line Density	64-192
Rendering Methods	Surface Surface Smooth Maximum X-Ray	Viewing Options	A/B/C/VR A/VR C/VR V
MultiSlice	Optional	3D Niche Mode	Yes
Sculpt	Yes	Measurements	Yes
Contrast	Yes	Annotations	Yes
Maps	17	Threshold	Yes
Save Cineloops	Yes	Save Volume	Yes

Compound (optional)

Frame Count	3 or 5 lines (tx/rx)	Focus Count	Max 2
Max line density	256	Compound Levels	Med ¹ , High ¹ , Shine ²

¹ Supported transducers: all Curved Array and Linear transducers.

² Supported transducers: L9-4/38, L14-5/38, L14-5/38 GPS.

Panoramic (optional)

Max Length	>0.8m	Zoom	Yes
Rotate	Yes	Pan	Yes

Elastography¹ (optional)

Maps	20	Transparency	0–100%
ROI	Yes	Stiffness Display Filter	Yes
Max Frame Rate	30 Hz	Region Selection	All, Soft, Med, Hard
Strain Ratio	Yes		

¹ Supported transducers: MC9-4/12, EC9-5/10, C5-2/60, C5-2/60GPS, C7-3/50, C9-5/10, BPC8-4/10, BPL9-5/55, L9-4/38, L14-5/38, L14-5/38GPS, L40-8/12, HST15-8/20, 4DC7-3/40, 4DEC9-5/10, 4DL14-5/38.

Research Modes

Color RF	Optional	B/RF	Optional	C/RF	Optional
RF	Optional	Power/RF	Optional	TDI/RF	Optional
RF Compound	Optional				

Analysis Packages

OB Scanning	Yes	Small Parts Scanning	Yes	Cardiac Scanning	Yes
Abdominal Scanning	Yes	Urology Scanning	Yes	Vascular Scanning	Yes
GYN Scanning	Yes				

Cleaning and Maintenance

Approved Cleaning Agents/Solutions

Display Cabinet	<ul style="list-style-type: none"> • water • mild detergent (PH level at or near 7) and water solution.
LCD Display Screen	<ul style="list-style-type: none"> • water • mild detergent (PH level at or near 7) and water solution. <p>Caution: For a complete list of cleaning solutions that <u>cannot</u> be used on the LCD display, refer to Appendix D in the current SonixTouch User Manual.</p>
Touch Screen	<ul style="list-style-type: none"> • water • 1% isopropyl alcohol.
System and Peripherals	Refer to Appendix D in the current <i>SonixTouch User Manual</i> .
Transducers	Refer to Appendix D in the current <i>SonixTouch User Manual</i> .

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Analogic Ultrasound

Analogic Corporation creates innovative technology to improve the health and ensure the safety of people around the world. We are committed to providing ultrasound solutions – under the Ultrasonix and BK Medical brand names – to advance medicine and save lives. www.analogicultrasound.com



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